



FIG. 1A

OK
to
enter
IDE
11/22/04



~~SERVER~~
SYSTEM
CODE

~~CLIENT~~
FIRST
PROCESS

~~server adds more
data to shared
table~~

ALLOCATE
ADDITIONAL
SHARED MEMORY

MAINTAIN ACCESS
INFORMATION IDENTIFYING
ALL CLIENT PROCESSES
HAVING ACCESS TO SHARED MEMORY

~~server accesses
PIDs of all clients
attached to shared
memory~~

IDENTIFY A SECOND
PROCESS HAVING
ACCESS TO SHARED
MEMORY

MAP ADDITIONAL
SHARED MEMORY
INTO ADDRESS SPACE
OF SECOND PROCESS

~~server uses
mmap_peer() to
map added shared
memory into address
space of all clients~~

USE PEER MAPPING
SYSTEM CALL TO
REQUEST MAPPING
ADDITIONAL SHARED
MEMORY INTO
ADDRESS SPACE
OF SECOND
PROCESS

Fig. 2

OK
to
enter
11/22/04